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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/707,272	0/707,272 12/02/2003		Leon R. Manole	2003-056	1271	
32170	7590	01/13/2006		EXAM	EXAMINER	
U.S. ARMY			HAYES,	HAYES, BRET C		
BLDG 3	ATTN: AMSTRA-AR-GCL BLDG 3			ART UNIT	PAPER NUMBER	
PICATINNY	PICATINNY ARSENAL, NJ 07806-5000					

DATE MAILED: 01/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/707,272	MANOLE ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Bret C. Hayes	3641					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status			·					
2a)⊠	Responsive to communication(s) filed on 31 O This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro						
Dispositi	on of Claims							
5)	Claim(s) 1-14 and 18-39 is/are pending in the adaptive day of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-14 and 18-39 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) according a constant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The	wn from consideration. r election requirement. r. epted or b) objected to by the lidrawing(s) be held in abeyance. Section is required if the drawing(s) is objected to by the lidrawing(s) is objected to by the lidrawing(s).	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).					
	inder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) 🔲 Notice 3) 🔲 Inform	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:						

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Art Unit: 3641

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by US Patent Application Publication 2002/0134274A1 to Martinez, Jr. et al. (*Martinez*).
- Martinez discloses the claimed invention including a flameless tracer comprising a first heat chemical 108C, for example, and a second heat chemical 112C, for example. Martinez further discloses that the container 104C, for example, is capable of being ruptured by the forces involved in launching the projectile, thereby allowing the chemicals to mix during flight, see paragraph [0014], for example. This would appear to anticipate the claimed limitations regarding such.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2 14 and 18 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martinez, as applied above, in view of Applicants' Admitted Prior Art (PA).

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6. Re – the claims, PA teaches "Chemiluminescents can be used to mark a target in low light conditions in visible and IR light without any flame source and little heat output", at paragraph 6 as amended. "IR" as pertains to light stands for "infrared", which is also known as thermal, which would appear to teach the limitations of heat visible to an observer as claimed. In other words, it would be obvious to one of ordinary skill in the art at the time the invention was made to modify Martinez to use infrared chemicals as taught by PA in order to mark a target.

7. Further, whether Martinez explicitly discloses the heat being visible either during flight or upon impact with a target is moot, because the device need only be capable of such usage, which it clearly is.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication should be directed to Bret Hayes at telephone number (571) 272 – 6902 or email address bret.hayes@uspto.gov. The examiner can normally be reached Monday through Thursday from 5:30 am to 4:00 pm, Eastern Standard Time.

The Central FAX Number is 571-273-8300.

If attempts to contact the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone, can be reached at (571) 272 -6873.

bh

9-Jan-06

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